

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph at page 7, lines 1-11, with the following rewritten paragraph:

- - [0028] The preferred embodiment also includes a frequency synthesizer 52. Preferably, the frequency synthesizer is a digital frequency synthesizer similar to the digital frequency synthesizer described in allowed U.S. Patent Application No. 09/315,452 entitled "Resonant Circuit Detection and Measurement System Employing a Numerically Controlled Oscillator", now U.S. Patent No. 6,232,878 which is hereby incorporated by reference in its entirety. The frequency synthesizer 52 provides a first output signal for driving the transmitter 12 at the primary frequency. The frequency synthesizer 52 also provides a second output signal for driving a conventional mixer 40 portion of a superhetrodyne receiver 14. The frequency of the second output signal of the frequency synthesizer 52 may be the same as the primary frequency or may be different from the primary frequency (i.e. a secondary frequency) depending on the selected mode of operation of the RF system 10, as described below.- -